

## Message Text

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ORIGIN OES-06

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DRAFTED BY OES/APT/SEP:ASHELDON

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R 100255Z JUL 76

FM SECSTATE WASHDC

TO AMEMBASSY MOSCOW

UNCLAS STATE 171371

E.O. 11652:N/A

TAGS:TGEN, US, UR

SUBJECT: S&T: ELECTROMETALLURGY: SOLID-STATE JOINING:  
(01.0306): VISIT OF SOVDEL: JULY 18 - AUGUST 1

REF: STATE 161455

1. REQUEST EMBASSY TRANSMIT FOLLOWING MESSAGE FROM  
OWCZARSKI TO PROFESSOR M. KH. SHORSHOROV, A.A. BAIKOV  
INSTITUTE OF METALLURGY, LENINSKI PROSPEKT 49,  
MOSCOW 117334, WITH COPIES TO GLEBOV AND SOVIET  
SECRETARIAT:

2. (QUOTE)

"DEAR PROFESSOR SHORSHOROV:

-I AM WRITING TO INDICATE WHAT AREAS OF DISCUSSION I  
BELIEVE WE SHOULD FOCUS ON DURING YOUR FORTHCOMING VISIT TO  
THE USA IN JULY, 1976. I HAVE BEEN CONCENTRATING MY  
ATTENTION ON THE ACCUMULATION OF REFERENCES AND SELECTION  
OF MATERIAL FOR THE REVIEW PAPERS AS PROFESSOR HECKEL'S  
RECENT LETTER INDICATED. CURRENTLY, I AM TRYING TO LIMIT  
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THE AREAS OF SEARCH TO ONLY DIFFUSION WELDING. DIFFUSION

WELDING IS DEFINED IN THE RECENT VOLUME I, SEVENTH EDITION  
OF THE WELDING HANDBOOK AS FOLLOWS:

"DIFFUSION WELDING:

"A SOLID STATE WELDING PROCESS WHICH PRODUCES COALESCENCE  
OF THE FAYING SURFACES BY THE APPLICATION OF PRESSURE AND  
ELEVATED TEMPERATURE. THE PROCESS DOES NOT INVOLVE  
MACROSCOPIC DEFORMATION, MELTING, OR RELATIVE MOTION  
OF PARTS. A SOLID FILLER METAL (DIFFUSION AID) MAY OR  
MAY NOT BE INSERTED BETWEEN THE FAYING SURFACES.

"I HAVE CHOSEN TO EXCLUDE OTHER SOLID STATE WELDING  
PROCESSES FROM THE SEARCH AT THIS TIME BECAUSE I BELIEVE  
THE TASK OF INCLUDING ALL OTHER FORMS OF SOLID STATE  
WELDING PROCESSES SUCH AS EXPLOSIVE, ULTRASONIC AND  
FRICTION WELDING WOULD BE PROHIBITIVE IN SCOPE.

"I HAVE BEGUN TO APPROACH THE WELDING RESEARCH COUNCIL TO  
DETERMINE IF THEY WISH TO PUBLISH THE REVIEWS AS A WRC  
BULLETIN AND TO ASSESS WHAT RESTRICTIONS OR SUGGESTIONS  
THEY WOULD HAVE AS TO FORMAT IF THEY ACCEPT. I HOPE TO  
HAVE THEIR VIEWS BY THE TIME OF YOUR VISIT HERE.

"I THEREFORE WOULD LIKE TO REVIEW:

A) PUBLICATION PLANS.

B) AN OUTLINE OF WHAT WILL BE CONTAINED IN THE REVIEW  
PAPER(S). IN PARTICULAR, WHICH SEGMENTS OF THE LITERATURE  
EACH WILL COVER.

C) A SCHEDULE OF MILESTONES FOR COMPLETION OF VARIOUS  
PHASES OF THE REVIEW PAPER(S).

"I AM LOOKING FORWARD TO SEEING YOU ONCE AGAIN IN THE USA.

"SINCERELY, PRATT & WHITNEY AIRCRAFT, WILLIAM A. OWCZARSKI,  
ASSISTANT MANAGER, MATERIALS ENGINEERING AND RESEARCH  
LABORATORY; MEMBER, US SOLID STATE JOINING TASK FORCE." KISSINGER

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## Message Attributes

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**TAGS:** TGEN, US, UR, (SHORSHOROV, M KH)  
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